Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DENSITY AND TEMPERATURE**

**1) What do you predict will happen when a cup of hot water is stacked on top of a cup filled with cold water? What do you think will happen with the opposite? (Cold on top, hot on bottom)**

**2) Were your predictions correct? What happened to the food coloring in each trial?**

***Hot on top of cold:***

***Cold on top of hot:***

**3) Draw a particle drawing for each trial that you saw today.**

|  |  |
| --- | --- |
| *Hot on top of cold* | *Cold on top of hot* |

**Density in everyday life**

**Working with a partner, think of 10 ways that density is altered in every day life. Think of ways that density is altered naturally or artificially. For example, swimming, ice cubes, and airplanes all are affected by density.**

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**How are density and temperature related? Explain**

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